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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/797,259	03/10/2004	Kevin Ptasienski	7377-000009/US	5363		
28997	7590 06/23/2005		EXAM	EXAMINER		
	DICKEY, & PIERCE,	FASTOVSKY, LEONID M				
ST. LOUIS,	OMME, STE 400 MO 63105	•	ART UNIT	PAPER NUMBER		
•			3742			

DATE MAILED: 06/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			on No.	Applicant(s)			
Office Action Summary		10/797,2	59	PTASIENSKI ET AL.			
		Examine		Art Unit			
			Fastovsky	3742			
Period fo	The MAILING DATE of this communication reply	on appears on the	ecover sheet with th	e correspondence addres	ss		
THE - Exte after - If the - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR IN MAILING DATE OF THIS COMMUNICAT ensions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days of period for reply sepecified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the led patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no evition. s, a reply within the state period will apply and with state the app	ent, however, may a reply bout tutory minimum of thirty (30) ill expire SIX (6) MONTHS folication to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this commu	unication.		
Status							
1)[🛛	Responsive to communication(s) filed on	n 28 February 20	05		•		
′=	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dienoeit	ion of Claims	=x parto qo	ayio, 1000 C.D. 11,	100 0.0. 210.	·		
4) \(\times \) 5) \(\times \) 6) \(\times \) 7) \(\times \)	Claim(s) 1-27 is/are pending in the application of Claims Claim(s) 1-27 is/are pending in the application of the above claim(s) 20-26 is/are with Claim(s) is/are allowed. Claim(s) 1-19 and 27 is/are rejected. Claim(s) is/are objected to claim(s) are subject to restriction	thdrawn from coi					
Applicat	ion Papers						
10)⊠	The specification is objected to by the Extended The drawing(s) filed on <u>28 February 2005</u> Applicant may not request that any objection Replacement drawing sheet(s) including the of the oath or declaration is objected to by the control of the oath or declaration is objected to by the control of the oath or declaration is objected to by the control of the oath or declaration is objected to by the control of the oath or declaration is objected to by the control of the oath or declaration is objected to by the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the control of the oath or declaration is objected to be the oath of the oath or declaration is objected to be the oath of the oath or declaration is objected to be the oath of the oath oath of the oath oath of t	is/are: a)⊠ aco to the drawing(s) t correction is requir	pe held in.abeyance. red if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1	I.121(d).		
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Esee the attached detailed Office action for	uments have bee uments have bee e priority docume Bureau (PCT Rul	en received. en received in Applic ents have been rece e 17.2(a)).	cation No	ge		
Attachmen	` '						
1) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94	40)	4) Interview Summ				
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/94 No(s)/Mail Date 3/14/05.	+o) SB/08)	Paper No(s)/Mai 5) Notice of Information 6) Other:	al Patent Application (PTO-152	2)		

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DETAILED ACTION

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-19 and 27, drawn to a layered heater, classified in class 219, subclass 543.
 - II. Claims 20-26, drawn to a method of forming a resistive circuit pattern of layered heater, classified in class 29, subclass 610.1.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the layered heater can be formed by a different process such as screen printing.
- 3. During a telephone conversation with Ms. K. Burris on 6/6/05 a provisional election was made without traverse to prosecute the invention of Group I, claims 19 and 27. Affirmation of this election must be made by applicant in replying to this Office action. Claims 20-26 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 4-10, 12, 17-18 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Wakasugi (JP408213202).

Wakasugi teaches a layer heater comprising at least one inherently thick film resistive layer 3 comprising a resistive circuit pattern (Fig. 1-10), the resistive circuit pattern defining a length and a thickness, wherein the thickness varies along the length of the resistive circuit and Wakasugi's resistive circuit inherently produces a variable watt density because of the various resistive thickness.

As for claims 4-5,10 and 12, see Fig. 2-4 and 6-9 where the pattern 3 has the width that is constant or variable.

As for claim 7, the resistive pattern 3 is a group of series (Fig. 2) or parallel (Fig. 7).

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Claim Rejections - 35 USC § 103

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7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 2-3 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wakasugi in view of Marsten et al (2,629,166).

Wakasugi teaches substantially the claimed invention, but does not teach constant or various spacing. Marsten discloses a resistor assembly with resistive circuit patterns (Fig. 5-17), having strips 24 and having different width so they have different resistant values and also having constant and various spacing (Col. 4, lines 65-70 and Fig. 6) It would have been obvious to one having ordinary skill in the art to modify Wakasugi's invention to include resistive circuit patterns and a spacing as taught by Marsten in order to improve heating characteristics of the heater.

9. Claims 15-16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wakasugi in view of Juliano et al.

Wakasugi teaches substantially the claimed invention, but does not teach dielectric layer and protective layer. Juliano teaches substantially the claimed invention having a heater system (Fig. 6) comprising a plurality film resistive element 86, a dielectric layer 84 and protective layer 48. It would have been obvious to one having ordinary skill in the art to modify Wakasugi's invention to include a dielectric layer and a protective layer

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as taught by Juliano in order to protect the heating structure and a plurality of resistive layers to improve heating characteristics of the heater.

10. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wakasugi in view of Colbert et al (3,010,850).

Wakasugi discloses substantially the claimed invention, but does not disclose a resistor comprising a material having a variable composition. Colbert discloses a resistive layer 12 that may be of a variable composition (col. 11, lines 34-45). It would have been obvious to one having ordinary skill in the art to modify Wakasugi's invention to include a resistor comprising a material having a variable composition as taught by Colbert in order to vary an electrical conductivity of the heater.

Response to Arguments

Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid M Fastovsky whose telephone number is 571-272-4778. The examiner can normally be reached on M-Th. 8.00 am -6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leonid M Fastovsky

Examiner Art Unit 3742

Imf

ROBIN O. EVANS